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REMARKS

Claims 1-5, 9 and 10 remain in this application. Claims 5, 9 and 10 have been amended by this amendment.

The office action rejects claims 5, 9 and 10 under 35 USC 112. It is submitted that this rejection is now obviated and withdrawal of the rejection is requested.

The office action rejects claims 1, 5, 9 and 10 under 35 USC 103 over EP 0969452 in consideration of EP 0800276, and rejects claims 2-4 under 35 USC 103 over the same art and further in view of the present state of DVD-RAM formatting. These rejections are respectfully traversed.

The claimed invention recites setting a conversion multiplying factor between a period of a signal obtained by detecting the wobble or deformation and a period of a recording clock generated from the signal obtained by detecting the wobble or deformation (see claims 1, 5, 9 and 10).

In general, when the recording clock is generated from the signal obtained by detecting the wobble or deformation, it is not necessary to set a conversion multiplying factor. Since each sector on the medium has a constant number of channel bits, once a recording clock is generated, the recording or reproducing operation can be executed in synchronism with the recording clock. Therefore, it does not need to set the conversion multiplying factor.

The present invention includes the above-noted feature of setting a conversion multiplying factor between a period of a signal obtained by detecting the wobble or deformation and a period of a recording clock generated from the signal obtained by detecting the wobble or deformation. The feature make it possible to change the total number of channel bits in each sector. By making the total number of channel bits written into a single sector variable, it is possible to achieve both a DVD-R type recording mark arrangement and a DVD-RAM type

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recording mark arrangement and other arrangements (refer to the description from page 4, line 25 to page 5, line 24).

The cited reference Asano (EP'452) discloses to generate signals SS0-SS10 having phases different from each other by a delay circuit 170 in order to make positioning during reproduction in synchronization with timing of predetermined synchronous signal (refer to Fig. 1 and paragraph [0022]). However, the reference Asano does not disclose the features of the present invention that a conversion multiplying factor between a period of a signal obtained by detecting the wobble or deformation and a period of the recording clock is set.

The cited reference Yoshizawa (EP'276) relates to implementation of an inner frequency conversion and discloses to obtain a necessary multiplying ratio of the frequency by using a plurality of multipliers (refer to description from column 4, line 42 to column 5, line 25 and others). However, the reference Yoshizawa does not disclose application to a recording apparatus and is not analogous or similar to the present invention. Especially, it is to be noted that the reference Yoshizawa does not disclose the features of the present invention that a conversion multiplying factor between a period of a signal obtained by detecting the wobble or deformation and a period of the recording clock is set.

An mentioned above, neither of the cited references disclose setting a conversion multiplying factor between a period of a signal obtained by detecting the wobble or deformation and a period of the recording clock. On the other hand, in the present invention, it becomes possible by the above features to arbitrarily change the total number of channel bits written into a single sector and therefore either of the DVD-R type recording mark arrangement, the DVD-RAM type recording mark arrangement, a different arrangements can be implemented (refer to the description from page 4, line 25 to page 5, line 24). Accordingly, the present invention cannot be obtained from the above references even if these references which do not disclose the features of the present invention are combined.

In view of the above, Applicant's submit that the above amendments should be entered and all claims in this application allowed.

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The Examiner is invited to call the undersigned at (202) 220-4200 to discuss any information concerning this application.

The Office is hereby authorized to charge any additional fees under 37 C.F.R. § 1.16 or § 1.17 or credit any overpayment to Deposit Account No. 11-0600.

Respectfully submitted,

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Registration No. 36,394

KENYON & KENYON 1500 K Street, N.W., Suite 700 Washington, D.C. 20005

Tel.: (202) 220-4200 Fax.: (202) 220-4201